

Jessica L. Burnett

URBAN ECOLOGY | OPEN SCIENCE | COMPUTATIONAL ECOLOGY

Education

University of Nebraska-Lincoln, Lincoln, NE

Ph.D. Natural Resource Sciences with specialization in Applied Ecology, expected 2019

University of Florida, Gainesville, FL

M.Sc. Wildlife Ecology and Conservation (2015)

B.Sc. Wildlife Ecology and Conservation (2013)

Professional Appointments

Graduate Research Assistant (2015 -)

Nebraska Cooperative Fish & Wildlife Research Unit | University of Nebraska-Lincoln

- Explore methods for detecting and predicting regime shifts on long-term and spatially explicit data.
- Identify indicator species for predicting ecosystem regime shifts.
- Communication with local and international collaborators.
- Work with military base scientists to gather data.
- Write quarterly reports for Department of Defense.

Graduate Research Assistant (2013 - 2015)

Department of Wildlife Ecology and Conservation | University of Florida

- Used open-source data to monitor invasive species' population trends.
- Developed occupancy models of non-native bird species in urban areas.
- Teaching assistant for courses *Wildlife Population Ecology*, *Wildlife Issues in a Changing World*, and *Biodiversity Conservation: Global Perspectives*.

GIS and Avian Ecology Intern (2013) Fish and Wildlife Research Institute | Florida Fish and Wildlife Research Conservation Commission

- Investigated effects of agriculture and urbanization on American Kestrel (*Falco sparverius*) nest success.

Research Assistant (2012 - 2013)

Avian Ecology and Conservation Lab | University of Florida

- Investigated alignment of predation risk perception and predation risk of small forest birds.
- Managed seasonal bird banding database and banding supplies.

Smithsonian Fellow and Florida Crew Leader (2011 - 2013)

Neighborhood Nestwatch Program | Smithsonian Migratory Bird Center

- Targeted capture and banding of select species in participants' backyards.
- Banding demonstrations at local youth organizations.
- Organized and trained banding technicians.

Project Volunteer (2012)

Ordway Lab of Ecosystem Conservation | University of Florida

- Transcribed voice-recorded, behavioral foraging data.
- Identified louse from lowland manakins and flycatcher specimens.

Peer-reviewed Publications

- [1] **Burnett, J.L.**, MOULTON, M.P. 2015. Recent trends in House Sparrow (*Passer domesticus*) distribution and abundance in Gainesville, Alachua County, Florida. *Florida Field Naturalist* 43(4):167-172.
- [2] **Burnett, J.L.**, SIEVING, K.E. Songbird distress call as a detection enhancement method and application to Red-shouldered Hawks (*Buteo lineatus*). Accepted in *Florida Field Naturalist* pending revisions.
- [3] **Burnett, J.L.**, ALLEN, C.R., BROWN, M.B., AND ROBERTS, C.R. Eurasian Tree Sparrow (*Passer montanus*) range expansion in North America. Accepted in *Biological Invasions* pending revisions.
- [4] ALLEN, C.R., BIRGE, H.B., BARTLET-HUNT, S.L., BEVANS, R.A., **Burnett, J. L.** , COSENS, B.A., CAI, X., GARMESTANI, A.S., LINKOV, I., SCOTT, E.A., SOLOMON, M.D., AND UDEN, D. Avoiding decline: Fostering resilience and sustainability in midsize cities. Under review at *Sustainability*.

Honors & Awards

2016-	AAAS/Science Program for Excellence in Science Award
2016-18	University of Nebraska Center for Great Plains Studies Graduate Fellow
2015-18	Othmer Recruitment Fellowship, University of Nebraska-Lincoln, \$24,000
2015-	Resilience Alliance Young Scholar
2014	2nd place, School of Natural Resources Elevator Speech Competition, \$300

Service

at the University of Nebraska-Lincoln

2016-	Founder & President, Natural Resources Diversity Initiative
2016-	Liaison, Faculty Advisory Committee, School of Natural Resources
2016	Organizer, Association for Women in Science Mentor Workshop
2016	Faculty Search Committee, Urban and Community Forester
2016	Seminar Coordinator, School of Natural Resources
2015-16	Department Representative Representative, Graduate Student Association
2015	Founder, Affiliate Chapter of the Association for Women in Science

to the Profession

2016-	Reviewer, Wilson Journal of Ornithology
2016	Planning Committee for Inclusive Ecology Section, Ecological Society of America
2015-16	Liaison, Urban Ecosystem Ecology Section, Ecological Society of America

Grants

for research

2013	IFAS Research Internship for Undergraduates, University of Florida, \$2,200
2013	Ordway-Swisher Biological Station Undergraduate Research, University of Florida, \$550

for travel

2016	Nelson Memorial Fellowship, University of Nebraska-Lincoln, \$900
2016	Center for Great Plains Studies, University of Nebraska-Lincoln, \$750
2016	American Ornithologists' Union, \$250

2015	NSF Diversity Award, Southeastern Ecology and Evolution Conference, \$650
2015	Department of Wildlife Ecology and Conservation, University of Florida, \$250
2015	Graduate Student Council, University of Florida, \$350
2015	Office of Research University of Florida, \$500
2014	Department of Wildlife Ecology and Conservation, University of Florida, \$250
2013	Office of Dean, Institute of Food and Agricultural Sciences, University of Florida, \$750

for membership

2013	American Ornithologists' Union Undergraduate Student Membership Award
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Current Membership

2015-	American Association for the Advancement of Science
2015-	Ecological Societies of America
2015-	Wilson Ornithological Society
2015-	The Wildlife Society, Nebraska Chapter